

Notice of Allowability

Application No.

10/522,275

Examiner

Richard Chan

Applicant(s)

HOSOI, MASAYUKI

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/5/06.
2. ☒ The allowed claim(s) is/are 6,7,9 and 10.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Allowable Subject Matter

Claims 6, 7 9, and 10 are allowed.

The following is an examiner's statement of reasons for allowance:

With respect to claim 6, Hisada discloses a receiving device comprising; a circuit board provided with an amplifier 5 that amplifies a high frequency input signal, a filter 4 that passes only an intended signal after tuning the high frequency input signal amplified by said amplifier, and a direct conversion unit 61 in which the high frequency input signal from said filter 5 is mixed with a local frequency signal from VCO 62 having the same frequency to obtain a base band signal that is a differential signal, having a land of the reference potential around a hole that is used for a shield case and that is provided around said filter; (Col.1 line 25-37) however Hisada does not specifically disclose a shield case that is formed of a metal plate and that surrounds said amplifier, filter and direct conversion unit, having a frame that surrounds said filter and a projection that is formed on said frame and that is inserted into the hole formed on said circuit board, in which said projection is connected to said land of the reference potential by soldering; and a metal shield cover that covers at least the frame surrounding said filter and that has a dropped-lid shape to come close to said filter.

The Matai reference however discloses wherein a case 101 made of metal may be constituted by a metal plate and frame. (Col.7 lines 54-62)

However the prior art does not disclose specifically wherein said shield cover has a dropped lid shaped portion that is bent to form the dropped –lid shape and a frame that is formed by bending said dropped-lid shaped portion; and wherein said dropped-lid portion has a main surface portion that covers said filter, a first surface-contact portion formed between the main surface portion and said frame to be in surface contact with said frame, and a second surface-contact portion formed opposing to the first surface contact portion to be in surface contact with said frame.

Claims 7 and 8 are dependent on allowed claim 6.

With respect to claim 10, Hisada discloses a receiving device comprising; a circuit board provided with an amplifier 5 that amplifies a high frequency input signal, a filter 4 that passes only an intended signal after tuning the high frequency input signal amplified by said amplifier, and a direct conversion unit 61 in which the high frequency input signal from said filter 5 is mixed with a local frequency signal from VCO 62 having the same frequency to obtain a base band signal that is a differential signal, having a land of the reference potential around a hole that is used for a shield case and that is provided around said filter; (Col.1 line 25-37) however Hisada does not specifically disclose a shield case that is formed of a metal plate and that surrounds said amplifier, filter and direct conversion unit, having a frame that surrounds said filter and a projection that is formed on said frame and that is inserted into the hole formed on said circuit board, in which said projection is connected to said land of the reference potential

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by soldering; and a metal shield cover that covers at least the frame surrounding said filter and that has a dropped-lid shape to come close to said filter.

The Matai reference however discloses wherein a case 101 made of metal may be constituted by a metal plate and frame. (Col.7 lines 54-62)

Hisada and Matai combined further discloses the receiving device further comprising: a digital demodulator 7 that demodulates a transport stream from an output of said detector; a data separator that separates compressed data of the desired program from data multiplexed in the transport stream from said digital demodulator; however neither Hisada or Mitai specifically disclose wherein an MPEG demodulator that expands the compressed data of the desired program from said data separator; an image processor that converts the expanded data from said MPEG demodulator to a video output signal; and a display that displays a video output signal from said image processor.

The Kuroda reference however discloses a MPEG demodulator 13 at the output of a digital demodulator, which expands the compressed data of the desired program. (Para 43 and 49)

However the prior art does not disclose specifically wherein said shield cover has a dropped lid shaped portion that is bent to form the dropped -lid shape and a frame that is formed by bending said dropped-lid shaped portion; and wherein said dropped-lid portion has a main surface portion that covers said filter, a first surface-contact portion formed between the main surface portion and said frame to be in surface contact with

said frame, and a second surface-contact portion formed opposing to the first surface contact portion to be in surface contact with said frame.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chan whose telephone number is (571) 272-0570. The examiner can normally be reached on Mon - Fri (9AM - 5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571)272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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2/8/07


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SUPERVISORY PATENT EXAMINER